

MONITORING AND ALARMING DEVICE

Point Type Flammable/Toxic Gas
Detector ES2000T/ESD200/ESD3000

Introduction Fixed installation for ES2000T/ESD200/ESD3000, detecting industrial field flammable and toxic gas leak. Connecting with alarm controller through branching system. Specificatio...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

Category	Monitoring And Alarming Device
Standard	ISO
Material	Items ES2000T ESD200 ESD3000 1 Display No LCD LCD 2 Detected gases flamm...
Weight / Size	Items ES2000T ESD200 ESD3000 1 Display No LCD LCD 2 Detected gases flamm...
Certificate	ABS, LR, BV, DNVGL, NK, KR, IRS, RMRS, CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications			
Category	Monitoring And Alarming Device	Model / SKU	Point-Type-Flammable-Toxic-Gas-Detector-ES2000T-ESD200-ESD3000

Standard	ISO	Material	Items ES2000T ESD200 ESD3000 1 Display No LCD LCD 2 Detected gases flammable gas/toxic gas flammable gas/toxic gas/VOC flammable gas/toxic gas/VOC 3 Detecting principle catalytic/electrochemical/Semiconductor catalytic/electrochemical/Light ion catalytic/electrochemical/Light ion 4 Measuring range 0 ~ 100%LEL (combustible gas) see appendix for toxic gas measure scope 0 ~ 100%LEL (combustible gas) see appendix for toxic gas measure scope see appendix for VOC gas measure scope 0 ~ 100%LEL (combustible gas) see appendix for toxic gas measure scope see appendix for VOC gas measure scope 5 Accuracy $\pm 3\%$LEL (combustible gas) $\pm 3\%$FS (toxic gas) $\pm 3\%$LEL (combustible gas) $\pm 3\%$FS (toxic gas) $\pm 3\%$LEL (combustible gas) $\pm 3\%$FS (toxic gas) 6 Repeatability $\pm 2\%$ $\pm 2\%$ 7 Response time T90 < 20S (Catalytic) Response time of toxic gas, see measurable toxic gas table T90 < 20S (Catalytic) Response time of toxic gas, see measurable toxic gas table see appendix for VOC gas response time T90 < 20S (Catalytic) Response time of toxic gas, see measurable toxic gas table see appendix for VOC gas response time 8 Power supply 24VDC (normal work voltage scope : 10 ~ 30VDC) 24VDC (normal work voltage scope : 10 ~ 30VDC) 24VDC (normal work voltage scope : 10 ~ 30VDC) 9 Power consumption < 2.5W (combustible gas) < 1.5W (toxic gas) < 2.5W (combustible gas) < 1.5W (toxic gas) < 2.5W (combustible gas) < 1.5W (toxic gas) 10 Output signal 2-wire 4~20mA (only for electrochemical sensor) 3-wire 4~20mA 3-wire 4~20mA+relay 3-wire 4~20mA+relay+audial &visual
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Warranty	12 Months unless specified otherwise	Origin China

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	■ Flammable Gases Detectable by ES2000T/ESD200/ESD3000	■ Toxic Gases Detectable by ES2000T/ESD200/ESD3000
	■ ES2000T/ESD200/ESD3000 Detectable VOC Gas List	

Introduction

Fixed installation for ES2000T/ESD200/ESD3000, detecting industrial field flammable and toxic gas leak.
Connecting with alarm controller through branching system.

Specifications

No.	Items	ES2000T	ESD200	ESD3000
1	Display	No	LCD	LCD
2	Detected gases	flammable gas/toxic gas	flammable gas/toxic gas/VOC	flammable gas/toxic gas/VOC
3	Detecting principle	catalytic/electrochemical/Semiconductor	catalytic/electrochemical/Light ion	catalytic/electrochemical/Light ion

4	Measuring range	0 ~ 100%LEL (combustible gas) see appendix for toxic gas measure scope	0 ~ 100%LEL (combustible gas) see appendix for toxic gas measure scope see appendix for VOC gas measure scope	0 ~ 100% LEL (combustible gas) see appendix for toxic gas measure scope see appendix for VOC gas measure scope
5	Accuracy	$\pm 3\%$ LEL (combustible gas) $\pm 3\%$ FS (toxic gas)	$\pm 3\%$ LEL (combustible gas) $\pm 3\%$ FS (toxic gas)	$\pm 3\%$ LEL (combustible gas) $\pm 3\%$ FS (toxic gas)
6	Repeatability	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$

7	Response time	T90 < 20S (Catalytic) Response time of toxic gas, see measurable toxic gas table	T90 < 20S (Catalytic) Response time of toxic gas, see measurable toxic gas table see appendix for VOC gas response time	T90 < 20S (Catalytic) Response time of toxic gas, see measurable toxic gas table see appendix for VOC gas response time
8	Power supply	24VDC (normal work voltage scope : 10 ~ 30VDC)	24VDC (normal work voltage scope : 10 ~ 30VDC)	24VDC (normal work voltage scope : 10 ~ 30VDC)

9	Power consumption	< 2.5W (combustible gas) < 1.5W (toxic gas)	< 2.5W (combustible gas) < 1.5W (toxic gas)	< 2.5W (combustible gas) < 1.5W (toxic gas)
10	Output signal	2-wire 4~20mA (only for electrochemical sensor) 3-wire 4~20mA 3-wire 4~20mA+relay 3-wire 4~20mA+relay+audial &visual alarm	2-wire 4~20mA (only for electrochemical sensor) 3-wire 4~20mA+ relay 3-wire 4~20mA+relay+audial &visual alarm	2-wire 4~20mA (only for electrochemical sensor) 3-wire 4~20mA+ relay 3-wire 4~20mA+relay+audial &visual alarm
11	Relay capacity	one team of digital output 1A@24VDC	one team of digital output 1A@24VDC	one team of digital output 1A@24VDC
12	Sound intensity	96dB@0.1m away	96dB@0.1m away	96dB@0.1m away

13	Main material	ADC12 aluminum alloy/316 stainless steel	ADC12 aluminum alloy/316 stainless steel	ADC 12 aluminum alloy/316 stainless steel
14	Screw connection	M20X1.5, 1/2NPT internal screw (select G3/4 or G1/2 or 3/4NPT)	M20X1.5, 1/2NPT internal screw (select G3/4 or G1/2 or 3/4NPT)	M20 X1.5, 1/2NPT internal screw (select G3/4 or G1/2 or 3/4NPT)

15	Weight	1.5kg (aluminum alloy, with audial & visual alarm) 1.42kg (aluminum alloy, without audial& visual alarm) 3.48kg (aluminum alloy, with audial & visual alarm) 3.4kg (stainless, without audial& visual alarm)	1.5kg (aluminum alloy, with audial & visual alarm) 1.42kg (aluminum alloy, without audial& visual alarm) 3.48kg (aluminum alloy, with audial & visual alarm) 3.4kg (stainless, without audial& visual alarm)	1.5kg (aluminum alloy, with audial & visual alarm) 1.42kg (aluminum alloy, without audial& visual alarm) 3.48kg (aluminum alloy, with audial & visual alarm) 3.4kg (stainless, without audial& visual alarm)
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16	Explosion proof certificate	Exd IIC T6 Gb/Ex tD A21 IP66 T80°C (flammable gas detector) Ex d ib IIC T6 Gb/Ex t D ibD A21 IP66 T80°C (toxic gas detector)	Exd IIC T6 Gb/Ex tD A21 IP66 T80°C (flammable gas detector) Ex d ib IIC T6 Gb/Ex t D ibD A21 IP66 T80°C (toxic gas detector)	Exd IIC T6 Gb/Ex tD A21 IP66 T80°C (flammable gas detector) Ex d ib IIC T6 Gb/Ex t D ibD A21 IP66 T80°C (toxic gas detector)
17	Fire safety certificate	CCCF	CCCF	CCCF
18	China metrology certification	CMC	CMC	CMC

19	Standard	GB 15322.1-2003, GB 3836.1-2010, GB 3836.2-2010, GB 3836.4-2010, GB 12476.1-2013, GB 12476.4-2010, GB 12476.5-2 013, JJF 1363-2012, JJF 1368-2012, JJF 1421-2013, JJF 1364-2012	GB 15322.1-2003, GB 3836.1-2010, GB 3836.2-2010, GB 3836.4-2010, GB 12476.1-2013, GB 12476.4-2010, GB 12476.5-2 013	GB 1532 2.1- 2003, GB 3836. 1- 2010, GB 3836. 2- 2010, GB 3836. 4- 2010, GB 1247 6.1- 2013, GB 1247 6.4- 2010, GB 1247 6.5-2 013, JJF 1363- 2012, JJF 1368- 2012, JJF 1421- 2013, JJF 1364- 2012
20	IP rating	IP66	IP66	IP66

21	Temperature scope	-40°C ~ 70°C (combustible) -20°C ~ 50°C (toxic)	-40°C ~ 70°C (combustible) -20°C ~ 50°C (toxic)	-40°C ~ 70°C (combustible) -20°C ~ 50°C (toxic)
22	Humidity scope	10 ~ 95%RH (non-condensing)	10 ~ 95%RH (non-condensing)	10 ~ 95%RH (non-condensing)
23	Pressure scope	86 ~ 106KPa	86 ~ 106KPa	86 ~ 106KPa

Flammable Gases Detectable by ES2000T/ESD200/ESD3000

No.	Description	Formula	ES2000T	ESD200	ESD3000
K001	Methane	CH ₄	•	•	•
K002	Methylbenzene	C ₆ H ₅ CH ₃	•	•	•
K003	Methanol	CH ₃ OH	•	•	•
K004	Methyl formate	HCOOCH ₃	•	•	•
K005	Ethyl formate	HCOOCH ₂ CH ₃	•	•	•
K006	Ethyl methyl ether	CH ₃ OCH ₂ CH ₃	•	•	•
K007	Ethane	CH ₃ CH ₃	•	•	•
K008	Ethyne	CH≡CH	•	•	•
K009	Ethanol	CH ₃ CH ₂ OH	•	•	•

K010	Ethylbenzene	$\text{CH}_3\text{CH}_2\text{C}_6\text{H}_5$	•	•	•
K011	Ethylene	$\text{CH}_2=\text{CH}_2$	•	•	•
K012	Methyl acetate	$\text{CH}_3\text{COOCH}_3$	•	•	•
K013	Ethyl acetate	$\text{CH}_3\text{COOCH}_2\text{CH}_3$	•	•	•
K014	N-butyl acetate	$\text{CH}_3\text{COOCH}_2(\text{CH}_2)_2\text{CH}_3$	•	•	•
K015	Propane	$\text{CH}_3\text{CH}_2\text{CH}_3$	•	•	•
K016	Propanol	$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$	•	•	•
K017	Propylene	$\text{CH}_2=\text{CHCH}_3$	•	•	•
K018	Acetone	$(\text{CH}_3)_2\text{CO}$	•	•	•
K019	Butane	C_4H_{10}	•	•	•
K020	Butanone	$\text{CH}_3\text{CH}_2\text{COCH}_3$	•	•	•
K021	Butadiene	$\text{CH}_2=\text{CHCH}=\text{CH}_2$	•	•	•
K022	Pentane	C_5H_{12}	•	•	•
K023	Hexane	$\text{CH}_3(\text{CH}_2)_4\text{CH}_3$	•	•	•
K024	Heptane	C_7H_{16}	•	•	•
K025	Octane	$\text{CH}_3(\text{CH}_2)_3\text{CH}_3$	•	•	•
K026	Nonane	$\text{CH}_3(\text{CH}_2)_7\text{CH}_3$	•	•	•
K027	Carbon monoxide	CO	•	•	•
K028	Ammonia	NH_3	•	•	•
K029	Hydrogen	H_2	•	•	•
K030	Benzene	C_6H_6	•	•	•
K031	Iso-butane	$(\text{CH}_3)_2\text{CHCH}_3$	•	•	•
K032	Isopropanol	$(\text{CH}_3)_2\text{CHOH}$	•	•	•
K033	1-Butanol	$\text{CH}_3(\text{CH}_2)_2\text{CH}_2\text{OH}$	•	•	•
K034	Cyclohexane	$\text{CH}_2(\text{CH}_2)_4\text{CH}_2$	•	•	•
K035	Cyclopentane	$\text{CH}_2(\text{CH}_2)_3\text{CH}_2$	•	•	•
K036	Epoxypropane	$\text{CH}_3\text{CHCH}_2\text{O}$	•	•	•

K037	Ethylene oxide	$\text{CH}_2\text{CH}_2\text{O}$	•	•	•
K038	Diethyl ether	$(\text{CH}_3\text{CH}_2)_2\text{O}$	•	•	•
K039	Dimethyl ether	$(\text{CH}_3)_2\text{O}$	•	•	•
K040	Xylene	$\text{C}_6\text{H}_4(\text{CH}_3)_2$	•	•	•
K041	Gasoline	$\text{C}_6\text{H}_4(\text{CH}_3)_2$	•	•	•
K042	Jet fuel, kerosene	$\text{C}_6\text{H}_4(\text{CH}_3)_2$	•	•	•

Note 1 : please use anti-poisoning sensor when detecting acetylene.

Note 2 : • means the gas can be detected by the model.

Toxic Gases Detectable by ES2000T/ESD200/ESD3000

No.	Description	Formula	Measurement Range(ppm)	ES2000T	ESD200	ESD3000
D00 1	Oxygen	O_2	0-25%v/v	•	•	•
D00 2	Carbon monoxide	CO	0-100/200/500/1000	•	•	•
D00 3	Hydrogen sulfide	H_2S	0-20/50/100	•	•	•
D00 4	Hydrogen	H_2	0-1000	•	•	•
D00 5	Ammonia	NH_3	0-100/500/1000	•	•	•
D00 6	Chlorine	Cl_2	0-10/20	•	•	•
D00 7	Nitric oxide	NO	0-100/500	•	•	•
D00 8	Nitrogen dioxide	NO_2	0-20/50	•	•	•
D00 9	Sulfur dioxide	SO_2	0-20/100	•	•	•
D01 0	Vinyl Chloride	$\text{C}_2\text{H}_3\text{Cl}$	0-20/100	•	•	•
D01 1	Acrylonitrile	$\text{C}_3\text{H}_3\text{N}$	0-100/200	•	•	•
D01 2	Methanol	CH_3OH	0-100/200/500	•	•	•

D01 3	Formaldehyde	CH ₂ O	0-50/100/200/500	●	●	●
D01 4	Ethylene oxide	C ₂ H ₄ O	0-20/100/200	●	●	●
D01 5	Hydrogen chloride	HCL	0-30/50	●	●	●
D01 6	Hydrogen fluoride	HF	0-10	●	●	●
D01 7	Hydrogen cyanide	HCN	0-30	●	●	●
D03 8	Tetrahydrothiophene	C ₄ H ₈ S	0-25	●	●	●

Note 1 : ● means the gas can be detected by the model.

ES2000T/ESD200/ESD3000 Detectable VOC Gas List

No.	Description	Formula	Measurement Range (ppm)	ES2000T	ESD200	ESD3000
V001	Benzene	C ₆ H ₆	0-20/50/100	X	●	●
V002	Methylbenzene	C ₇ H ₈	0-20/50/100	X	●	●
V003	Ethylbenzene	C ₈ H ₁₀	0-50/100	X	●	●
V004	Cyclohexanone	C ₆ H ₁₀ O	0-100/200	X	●	●
V005	Acetone	C ₃ H ₆ O	0-100/200	X	●	●
V006	Phenol	C ₆ H ₆ O	0-100/200	X	●	●
V007	Ethyl acetate	C ₄ H ₈ O ₂	0-500/1000	X	●	●
V008	Styrene	C ₈ H ₈	0-50/100	X	●	●
V009	Methylamine	CH ₅ N	0-100/200/400	X	●	●
V010	Aniline	C ₆ H ₇ N	0-50/100	X	●	●
V011	P-Xylene	C ₈ H ₁₀	0-20/50/100	X	●	●

Note 1: ● means the gas can be detected by the model.

Note 2: X means the gas cannot be detected by the model.

